

Continuing Education Units

Continuing education credits will be offered for laboratorians, based on 13 hours of instruction.

Special Needs

In compliance with the American Disabilities Act, individuals needing special accommodations should notify the NLTN Southeastern office at least two weeks prior to the workshop by calling 615-262-6315.

For Additional Information

Contact the National Laboratory Training Network at:

(615) 262-6315

(800) 536-NLTN (Southeast Only)

or

NC State Laboratory of Public Health, Laboratory Improvement Section at: (919) 733-7186.



The NLTN is a training system sponsored by the Association of Public Health Laboratories (APHL) and the Centers for Disease Control and Prevention (CDC).

National Laboratory Training Network
P.O. Box 78215
Nashville, TN 37207-8215

Parasitology - Emphasis on the New and Emerging



February 29 - March 1, 2000

Sponsored by:

**National Laboratory Training
Network Southeastern Office**

and

**North Carolina State Laboratory of
Public Health**

With faculty from:

*The Centers for Disease Control
and Prevention*

Program Description

This two day intestinal parasite workshop will address basic knowledge of helminths and protozoa with an emphasis on *Cryptosporidium*, *Cyclospora*, and microsporidia. Laboratory techniques will be discussed and participants will have an opportunity to stain and examine the parasites in a laboratory setting.

Who Should Attend

Technologists, technicians, microbiologists, and supervisors in hospital and reference laboratories.

Faculty

Michael J. Arrowood, Ph.D Microbiologist
Mark L. Eberhard, Ph.D Microbiologist
Govinda S. Visvesvara, Ph.D Microbiologist
Stephanie P. Johnston, MS Microbiologist

All faculty are from the Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention.

Schedule

Tuesday, February 29th 2000:

8:00 Registration
8:30 Overview and Pretest
9:00 General Laboratory Techniques:
introduction of helminths and protozoa
9:45 Break
10:00 *Cryptosporidium parvum* and *Cyclospora*
12:00 Lunch (provided)
1:00 *Cryptosporidium* and *Cyclospora* lab
5:00 End of day 1

Wednesday, March 1st 2000:

8:30 Microsporidia lecture and laboratory
10:00 Break
10:15 Continuation of Microsporidia.
11:30 Lunch and review of DPDx website
12:30 Laboratory review and discussion
3:00 Post Quiz and Evaluation
4:00 Adjourn

Course Objectives

Upon completion of this seminar, the participants should be able to:

- ! Discuss techniques of FEA concentration procedures and trichrome stain for intestinal helminths and protozoa.
- ! Outline life cycles, morphological characteristics, and clinical features of *Cryptosporidium*, *Cyclospora*, and microsporidia organisms.
- ! Demonstrate various staining techniques (modified acid-fast, safranin, and chromotrope 2R) when staining specimens for *Cryptosporidium*, *Cyclospora*, and microsporidia.
- ! Detect and identify *Cryptosporidium* oocysts in specimens stained with modified acid-fast stain, safranin stain, and on wet mount preparations.
- ! Detect and identify *Cryptosporidium* oocysts in commercially available direct fluorescent antibody assays (FA) and enzyme immunoassays (EIA).
- ! Summarize key points in the laboratory diagnosis of *Cyclospora* using wet mounts, modified acid-fast stain, safranin stain, and UV fluorescence.
- ! Identify microsporidia spores using chromotrope 2R stain.

Microscopes

Participants must have attended the NC Laboratory Improvement Branch's workshop, Microscopy: Viewing and Reviewing or they must bring a microscope (with ocular micrometer) from their facility. If you are unable to attend the course because you do not have access to a microscope please call: 800-536-6586 (SE only) or 615-262-6315.

Location

The workshop will be held at the State Laboratory of Public Health
Bath Building
Raleigh, NC

A confirmation letter containing a map to the location will be mailed upon receipt of your registration.

Registration Options

Register Early! We expect this class to fill rapidly, the number of participants is limited. Registration deadline is February 18, 2000.

For registration information you can contact the NLTN Southeastern Office any of the following ways:

Phone: 615-262-6315
FAX: 615-262-6441
Email: seoffice@nltn.org